Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-16 (canceled)

17. (currently amended) Method for disposal of radioactive materials, comprising providing a binder/aggregate mixture for producing at least one of an embedding material, a mortar, and a casting resin, wherein the aggregate in said mixture is partially substituted by at least one radioactive material to be disposed of~~, and wherein the at least one radioactive material to be disposed of is nearly devoid of ultrafine components~~in which the proportion of fines in the radioactive material having a grain size of < 250 μm amounts to less than 30 wt%.

18. (canceled)

19. (currently amended) Method according to claim ~~18~~17, wherein the proportion of fines of < 250 μm is less than 15 wt.% of the material to be disposed of.

20. (previously presented) Method according to claim 17, wherein the mixture includes a hydraulic binder.

21. (previously presented) Method according to claim 17, wherein the mixture comprises a reaction resin as a binder.

22. (previously presented) Method according to claim 17, wherein the at least one radioactive material is used as the aggregate in the mixture and partially replaces a filler in the mixture, and wherein the mixture further comprises a mortar or casting compound for embedding or encapsulating other materials to be disposed of in a receptacle or container.

23. (previously presented) Method according to claim 17, wherein the at least one radioactive material includes reactor graphite which is broken up into small pieces and wherein the mixture further includes a hydraulic binder and other additives as a mortar or casting compound formulation for embedding or encapsulating other radioactive and/or toxic materials to be disposed of.

24. (previously presented) Method according to claim 17, wherein the at least one radioactive material includes radioactive reactor graphite which is wet-ground to a grain size of < 60 mm and then is mixed together with at least one hydraulic binder for the production of a mortar or embedding compound formulation.

25. (previously presented) Method according to claim 17, wherein the proportion of fines of < 200 μm grain size of the material to be disposed of amounts to less than 20% by weight of the material to be disposed of.

26. (previously presented) Method according to claim 17, wherein the mixture further comprises formulation additives for increasing the flowability, filling ratio, corrosion resistance, resistance to aging, resistance to leaching, and surface wettability of the at least one of the embedding material, mortar and casting resin produced by the mixture.

27. (currently amended) Method according to claim 17, wherein the filling ratio of the at least one of the embedding material, mortar and casting resin produced by the mixture with radioactive material is higher than the filling ratio ~~when~~ produced by the mixture with conventional aggregates such as sand, gravel and/or additives such as clinoptilolith, micropoz, powdered limestone, quartz power, and others in the mixture ~~are not substituted~~ unsubstituted for the radioactive material.

28. (previously presented) Method according to claim 17, wherein the mixture includes sulfate-resistant and/or corrosion-resistant cement as a binder.

29. (previously presented) Method according to claim 17, wherein the material to be disposed of is radioactive graphite to which a wetting agent has been added while crushing or grinding the graphite.

30. (currently amended) Casting compound containing as a binder recipe at least one hydraulic binder and as a filler in the binder at least ground

and/or broken radioactive and/or toxic material with a fine component < 250 μm grain size of the filler being less than 30 wt.% based on the weight of the amount of said filler.

31. (previously presented) Casting compound according to claim 30, wherein the at least one hydraulic binder is cement.

32. (previously presented) Casting compound according to claim 30, wherein the at least one radioactive and/or toxic material includes radioactive reactor graphite.

33. (previously presented) Casting compound according to claim 32, wherein the fine component < 250 μm grain size is less than 10 wt.% based on the weight of the amount of filler.

34. (currently amended) Casting containing radioactive materials to be disposed of as well as a casting or mortar recipe as a casting mortar matrix containing hydraulic binder and ground and/or broken-up radioactive graphite with a fine component < 250 μm grain size of the graphite being less than 30 wt% based on the weight of the amount of said graphite in said casting mortar matrix.

35. (previously presented) Casting according to claim 34, wherein the radioactive graphite of the mortar matrix includes reactor graphite.

36. (previously presented) Casting according to claim 34, wherein the radioactive materials to be disposed of include reactor waste.

37. (previously presented) Casting according to claim 34, wherein the hydraulic binder includes cement.

38. (currently amended) Casting material cast in a vessel as a mold, wherein the casting material comprises a casting mortar matrix containing hydraulic binder and ground and/or broken-up radioactive graphite ~~nearly devoid of ultrafine components~~in which the proportion of fines having a grain size of < 250 μm amounts to less than 30 wt% of the graphite in said casting mortar matrix.

39. (canceled)

Amendments to the Drawings:

The attached sheets contains replacements sheets for the five pages of drawings containing Figs. 1-6. Annotated sheets showing changes in the drawings are also enclosed. The changes in the drawings involve omission of the sheet numbering at the top of each sheet and English translations of the labeling on the ordinate and abscissa of the graphs in Figs. 3-6.